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(54) CONCENTRATE OF TROPINE-COAGULABLE PROTEIN, ITS PRODUCTION AND
USE THEREOF FOR TREATMENT

(57)Abstract:

PURPOSE: To obtain the subject concentrate having the satisfactory concentrations of coagulable fibrinogen and endogenous factor XIII and excellent in stability and solubility by precipitating and treating human or animal plasma with ethanol.

CONSTITUTION: This concentrate of tropine-coagulable protein is obtained by precipitating human or animal plasma with diluted ethanol at a pH near to a neutral pH and at a low temperature, washing the precipitates with diluted ethanol at a low temperature, centrifuging the whole washed precipitates, redissolving the precipitates in a tris/citric acid buffer solution, concentrating the solution, filtering the concentrated solution, preferably lyophilizing the filtrate, redissolving the lyophilized product or the corresponding paste in water or a tris/citric acid buffer solution containing lysine, and subsequently treating the solution with diluted ethanol at 30-40°C to obtain the protein concentrate containing $\geq 70\%$ of coagulable fibrinogen, endogenous factor XIII in an amount of 0.10 IU per g of the protein, $\leq 0.35\text{mg}$ of albumin, and 0.03-0.10g of fibronectin, and capable of being rapidly dissolved in an aqueous solution up to a 150g/liter protein concentration at the atmospheric temperature.